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DATE: Wednesday, September 15, 2004

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| <input type="checkbox"/> | L4 | L3 and 134/\$.ccls. | 21 |
| <input type="checkbox"/> | L3 | L2 and (prior or before) | 30 |
| <input type="checkbox"/> | L2 | L1 same steam\$ | 45 |
| <input type="checkbox"/> | L1 | dishwasher same operating | 1511 |

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 10 of 21 returned.

☐ 1. Document ID: US 20020078977 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 21

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020078977

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020078977 A1

TITLE: Steam cleaning in a dishwasher

PUBLICATION-DATE: June 27, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---------------|----------|-------|---------|---------|
| Manne, Joseph | New York | NY | US | |

US-CL-CURRENT: 134/25.2; 134/29, 134/30

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KOMIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-------|--------|

☐ 2. Document ID: US 4457323 A

L4: Entry 2 of 21

File: USPT

Jul 3, 1984

US-PAT-NO: 4457323

DOCUMENT-IDENTIFIER: US 4457323 A

**** See image for Certificate of Correction ****

TITLE: Dishwasher with steam generating heater and cold water input

DATE-ISSUED: July 3, 1984

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------|--------------------|-------|----------|---------|
| Fay; John A. | Los Angeles County | CA | | |
| Walsh; Cyral M. | Los Angeles County | CA | | |
| Ko; Venancio | Los Angeles County | CA | | |

US-CL-CURRENT: 134/18; 134/25.2, 134/30, 422/105, 422/26

ABSTRACT:

h e b b g e e e f e c e e f b e

A dishwasher and dishwashing method which generate steam from the surface of a body of water in the dishwasher tub, without substantial heating of the entire body of water, during at least parts of the washing and rinsing operations performed on dishes within the tub. Heating only a surface layer of the body of water to generate steam results in substantial energy savings, particularly when the dishwasher is supplied with cold water, instead of preheated water. Efficient steam generation, and heating limited to the surface layer of the body of water, are achieved by utilizing a large-area partially-submerged electric heater, comprising an electrical resistance heating element carrying a heat conductive, metallic jacket of enlarged cross section. The jacket is provided with a depending peripheral skirt for trapping air and/or steam beneath the jacket so as to minimize downward heat transfer from the jacket to the water below the surface layer.

2 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Ds |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|
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☐ 3. Document ID: US 4246916 A

L4: Entry 3 of 21

File: USPT

Jan 27, 1981

US-PAT-NO: 4246916

DOCUMENT-IDENTIFIER: US 4246916 A

TITLE: Dishwasher with steam generating heater and cold water input

DATE-ISSUED: January 27, 1981

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------|--------------------|-------|----------|---------|
| Fay; John A. | Los Angeles County | CA | | |
| Walsh; Cyral M. | Los Angeles County | CA | | |
| Ko; Venancio P. | Los Angeles County | CA | | |

US-CL-CURRENT: 134/105; 392/394, 392/403

ABSTRACT:

A dishwasher which generates steam from the surface of a body of water in the dishwasher tub, without substantial heating of the entire body of water, during at least parts of the washing and rinsing operations performed on dishes within the tub. Heating only a surface layer of the body of water to generate steam results in substantial energy savings, particularly when the dishwasher is supplied with cold water, instead of preheated water. Efficient steam generation, and heating limited to the surface layer of the body of water, are achieved by utilizing a large-area partially-submerged electric heater, comprising an electrical resistance heating element carrying a heat conductive, metallic jacket of enlarged cross section. The jacket is provided with a depending peripheral skirt for trapping air and/or steam beneath the jacket so as to minimize downward heat transfer from the jacket to the water below the surface layer.

4 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|
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☐ 4. Document ID: US 4135531 A

L4: Entry 4 of 21

File: USPT

Jan 23, 1979

US-PAT-NO: 4135531
DOCUMENT-IDENTIFIER: US 4135531 A

TITLE: Dishwasher operated solely by steam and hot water pressure

DATE-ISSUED: January 23, 1979

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|---------------|-------|----------|---------|
| Federighi; George J. | San Francisco | CA | 94105 | |
| Federighi; George B. | San Francisco | CA | 94105 | |

US-CL-CURRENT: 134/95.3; 134/102.1, 134/106

ABSTRACT:

A dishwasher that has a steam boiler containing hot water and steam under pressure. The dishwasher has a dishwashing and rinsing compartment with a body of hot water, adjustable as to depth, received in the bottom of the compartment. A time controlled device delivers steam from the boiler to steam jets in the compartment for a predetermined time period for washing the dishes. The steam jets have apparatus associated therewith that will cause the steam jets to periodically entrain hot water from the body of water to deliver a pulsating steam and hot water action against the dishes for washing them. The depth of the body of water can be raised so that only live steam and water will issue from the steam jets if desired, with no pulsating action. The time controlled device delivers hot rinse water from the boiler for rinsing the dishes in the compartment after the dishwashing operation.

7 Claims, 12 Drawing figures
Exemplary Claim Number: 7
Number of Drawing Sheets: 6

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|
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☐ 5. Document ID: US 3498304 A

L4: Entry 5 of 21

File: USOC

Mar 3, 1970

US-PAT-NO: 3498304
DOCUMENT-IDENTIFIER: US 3498304 A

h e b b g e e f e c e ef b e

TITLE: APPARATUS FOR CLEANING DISHWARE

DATE-ISSUED: March 3, 1970

INVENTOR-NAME: RUMBAUGH HUGH M

US-CL-CURRENT: 134/58D; 134/100.1, 134/182, 134/194, 134/57D, 134/93, 134/99.2

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|
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☐ 6. Document ID: US 3490467 A

L4: Entry 6 of 21

File: USOC

Jan 20, 1970

US-PAT-NO: 3490467

DOCUMENT-IDENTIFIER: US 3490467 A

TITLE: METHOD OF MONITORING AND MAINTAINING CONCENTRATION OF DEPLETABLE WORK SOLUTIONS

DATE-ISSUED: January 20, 1970

INVENTOR-NAME: GORE WILLIAM H; LEISING PAUL E ; TOOPER EDWARD B

US-CL-CURRENT: 134/18, 134/10, 134/36

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|
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☐ 7. Document ID: US 3402576 A

L4: Entry 7 of 21

File: USOC

Sep 24, 1968

US-PAT-NO: 3402576

DOCUMENT-IDENTIFIER: US 3402576 A

TITLE: Combination clothes washer, dryer, dishwasher, drycleaner, and garment appearance-finishing machine

DATE-ISSUED: September 24, 1968

INVENTOR-NAME: KRUPSKY MICHAEL R

US-CL-CURRENT: 68/4; 134/111, 134/115R, 134/120, 134/189, 134/194, 68/12.08, 68/12.13, 68/12.22, 68/12.23, 68/16, 68/18F, 68/20

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|
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☐ 8. Document ID: US 3397708 A

L4: Entry 8 of 21

File: USOC

Aug 20, 1968

US-PAT-NO: 3397708

DOCUMENT-IDENTIFIER: US 3397708 A

TITLE: Forced air drying system for a dishwasher

DATE-ISSUED: August 20, 1968

INVENTOR-NAME: BRADEN RALPH S

US-CL-CURRENT: 134/57R; 134/102.3, 134/107, 134/57D, 134/99.1

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 9. Document ID: US 3319637 A

L4: Entry 9 of 21

File: USOC

May 16, 1967

US-PAT-NO: 3319637

DOCUMENT-IDENTIFIER: US 3319637 A

TITLE: Means for monitoring and maintaining concentration of depletable work solutions

DATE-ISSUED: May 16, 1967

INVENTOR-NAME: GORE WILLIAM H; LEISING PAUL E ; TOOPER EDWARD B

US-CL-CURRENT: 134/57D, 118/690, 134/103.1, 134/113, 134/72, 137/5, 137/93, 222/54, 244/134C

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 10. Document ID: US 3221754 A

L4: Entry 10 of 21

File: USOC

Dec 7, 1965

US-PAT-NO: 3221754

DOCUMENT-IDENTIFIER: US 3221754 A

TITLE: Dishwashing machines

DATE-ISSUED: December 7, 1965

INVENTOR-NAME: ROBSON FREDERICK W; WAHL WILLIAM A

US-CL-CURRENT: 134/68, 134/113, 134/58D, 198/465.1, 198/606

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

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| 134/\$ | 0 |
| 134/1 | 2338 |
| 134/10 | 1385 |
| "134/100.1" | 354 |
| "134/102.1" | 802 |
| "134/102.2" | 299 |
| "134/102.3" | 172 |
| "134/103.1" | 393 |
| "134/103.2" | 499 |
| "134/103.3" | 91 |
| "134/104.1" | 329 |
| (L3 AND 134/ \$.CCLS.).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD. | 21 |

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Search Results - Record(s) 11 through 20 of 21 returned.

☐ 11. Document ID: US 3130737 A

Using default format because multiple data bases are involved.

L4: Entry 11 of 21

File: USOC

Apr 28, 1964

US-PAT-NO: 3130737

DOCUMENT-IDENTIFIER: US 3130737 A

TITLE: Automatic dishwashing appliance

DATE-ISSUED: April 28, 1964

INVENTOR-NAME: JELLIES DAVID A

US-CL-CURRENT: 134/57D; 134/107, 134/114, 134/186, 134/188, 134/95.2, 219/400,
318/778, 392/350, 392/446, 68/12.15, 68/12.19, 68/12.23, 68/15, 68/20

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|----------|
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☐ 12. Document ID: US 3126898 A

L4: Entry 12 of 21

File: USOC

Mar 31, 1964

US-PAT-NO: 3126898

DOCUMENT-IDENTIFIER: US 3126898 A

TITLE: OCR SCANNED DOCUMENT

DATE-ISSUED: March 31, 1964

INVENTOR-NAME: Name not available

US-CL-CURRENT: 134/99.1; 134/103.2, 134/182, 134/188, 134/193, 134/21

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|----------|
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☐ 13. Document ID: US 3068877 A

L4: Entry 13 of 21

File: USOC

Dec 18, 1962

US-PAT-NO: 3068877

DOCUMENT-IDENTIFIER: US 3068877 A

TITLE: Dishwasher

DATE-ISSUED: December 18, 1962

INVENTOR-NAME: JACOBS JAMES W

US-CL-CURRENT: 134/99.1; 134/103.2, 134/108, 134/174, 134/186

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|---------|

☐ 14. Document ID: US 3049136 A

L4: Entry 14 of 21

File: USOC

Aug 14, 1962

US-PAT-NO: 3049136

DOCUMENT-IDENTIFIER: US 3049136 A

TITLE: Dishwashing machine

DATE-ISSUED: August 14, 1962

INVENTOR-NAME: SCOYK HOWARD E VAN

US-CL-CURRENT: 134/95.2; 134/108, 134/11, 134/174, 134/180, 134/183, 219/401,
34/195, 392/394, 392/403

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|---------|

☐ 15. Document ID: US 3049133 A

L4: Entry 15 of 21

File: USOC

Aug 14, 1962

US-PAT-NO: 3049133

DOCUMENT-IDENTIFIER: US 3049133 A

TITLE: Dishwasher

DATE-ISSUED: August 14, 1962

INVENTOR-NAME: JACOBS JAMES W

US-CL-CURRENT: 134/57D; 134/107, 134/108, 134/11, 134/30, 134/31, 134/95.1,
134/99.2

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|---------|

☐ 16. Document ID: US 3026628 A

L4: Entry 16 of 21

File: USOC

Mar 27, 1962

US-PAT-NO: 3026628

DOCUMENT-IDENTIFIER: US 3026628 A

TITLE: Drying system for dishwashers

DATE-ISSUED: March 27, 1962

INVENTOR-NAME: BERGER SR WILLIAM E; LEVIT EDWARD C

US-CL-CURRENT: 34/231, 134/102.1, 134/108, 34/197, 34/233, 34/76

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|----------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|----------|

☐ 17. Document ID: US 3024074 A

L4: Entry 17 of 21

File: USOC

Mar 6, 1962

US-PAT-NO: 3024074

DOCUMENT-IDENTIFIER: US 3024074 A

TITLE: Domestic appliance

DATE-ISSUED: March 6, 1962

INVENTOR-NAME: JACOBS JAMES W; MERCER ROBERT L

US-CL-CURRENT: 134/107, 126/198, 134/108, 134/200, 312/111, 312/213, 454/195,
49/490.1, 49/498.1, 49/501

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|----------|
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☐ 18. Document ID: US 2871082 A

L4: Entry 18 of 21

File: USOC

Jan 27, 1959

US-PAT-NO: 2871082

DOCUMENT-IDENTIFIER: US 2871082 A

TITLE: Dishwasher door with air circulating means and moisture trap

DATE-ISSUED: January 27, 1959

INVENTOR-NAME: KARIG HORACE E; SMITH HERBERT L

US-CL-CURRENT: 312/213, 126/198, 134/182, 312/296

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|----------|
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☐ 19. Document ID: US 2781765 A

L4: Entry 19 of 21

File: USOC

Feb 19, 1957

US-PAT-NO: 2781765

DOCUMENT-IDENTIFIER: US 2781765 A

TITLE: Operational cycle for dishwashers

DATE-ISSUED: February 19, 1957

INVENTOR-NAME: STEIDLEY VIRGIL K

US-CL-CURRENT: 134/57D; 134/95.1, 392/463

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 20. Document ID: US 2671455 A

L4: Entry 20 of 21

File: USOC

Mar 9, 1954

US-PAT-NO: 2671455

DOCUMENT-IDENTIFIER: US 2671455 A

TITLE: Dishwasher

DATE-ISSUED: March 9, 1954

INVENTOR-NAME: JOHN MACDONALD; MEADOWCROFT GEORGE R

US-CL-CURRENT: 134/57DL, 134/107, 134/113, 134/186, 134/187, 134/95.1

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |
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| 134/1 | 2338 |
| 134/10 | 1385 |
| "134/100.1" | 354 |
| "134/102.1" | 802 |
| "134/102.2" | 299 |
| "134/102.3" | 172 |
| "134/103.1" | 393 |
| "134/103.2" | 499 |
| "134/103.3" | 91 |

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| "134/104.1" | 329 |
| (L3 AND 134/ \$.CCLS.).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD. | 21 |

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Search Results - Record(s) 21 through 21 of 21 returned.

☐ 21. Document ID: US 2575704 A

Using default format because multiple data bases are involved.

L4: Entry 21 of 21

File: USOC

Nov 20, 1951

US-PAT-NO: 2575704

DOCUMENT-IDENTIFIER: US 2575704 A

TITLE: Automatically controlled washing apparatus

DATE-ISSUED: November 20, 1951

INVENTOR-NAME: CLARK EARL K

US-CL-CURRENT: 134/58DL; 220/DIG.28, 292/80, 307/141

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|--------|
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| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |
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| Term | Documents |
|--|-----------|
| 134/\$ | 0 |
| 134/1 | 2338 |
| 134/10 | 1385 |
| "134/100.1" | 354 |
| "134/102.1" | 802 |
| "134/102.2" | 299 |
| "134/102.3" | 172 |
| "134/103.1" | 393 |
| "134/103.2" | 499 |
| "134/103.3" | 91 |
| "134/104.1" | 329 |
| (L3 AND 134/ \$.CCLS.).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD. | 21 |

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